
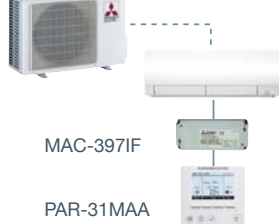







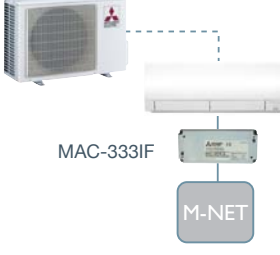

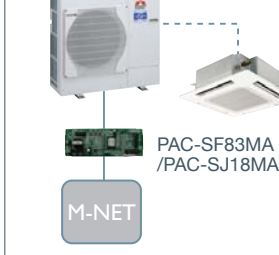
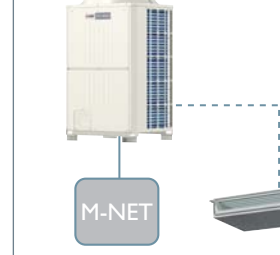
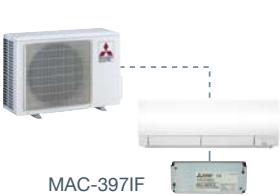

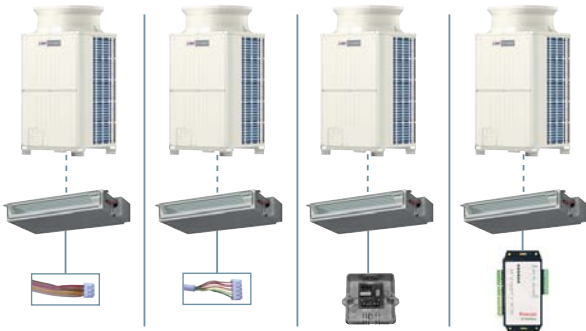



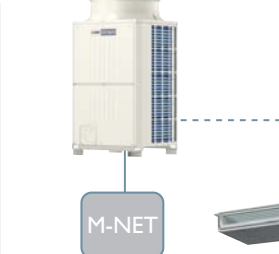






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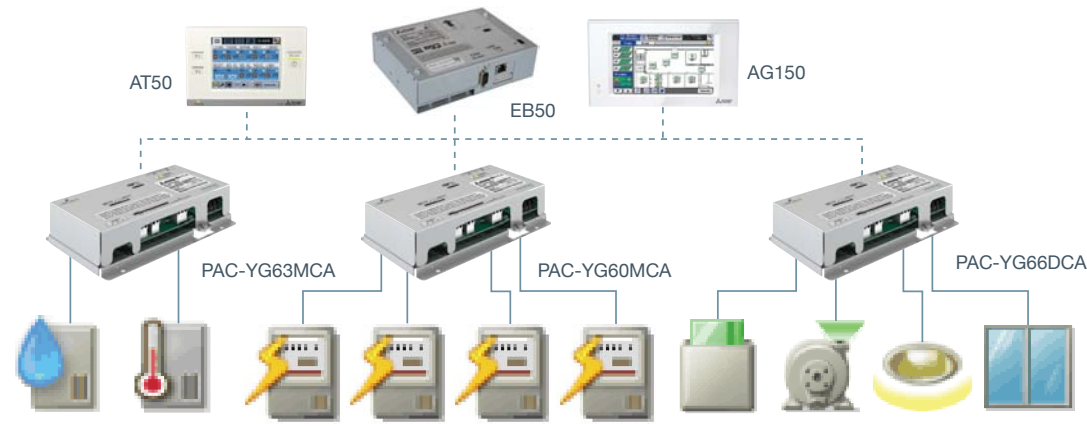
| Hardware Specifications | | M Series | Mr Slim | City Multi | | | |
|--|---------|--|--|--|--|--|---|
| Systems | Network |  MAC-397IF PAC-YT52CRA  MAC-397IF PAR-31MAA |  PAC-YT52CRA PAR-31MAA  PAC-YT52CRA PAR-FA32MA  PAR-FL32MA |  PAR-31MAA |  PAR-U02MEDA |  PAC-YT52CRA |  PAR-FA32MA PAR-FL32MA |
| Remote controllers | Network | | | | | | |
| PAR-31MAA | ANET | | | | | | |
| PAC-YT52CRA | ANET | | | | | | |
| PAR-FA/FL32MA | ANET | | | | | | |
| PAR-U02MEDA | MNET | | | | | | |
| MAC-397IF is an ANET converter for M Series. | | IMG001 | IMG002 | IMG003 | | | |


















| Conversion to MNET | | M Series | Mr Slim (S Series) | Mr Slim (P Series) | City Multi |
|------------------------|-----------------------|--|--|--|--|
| Systems | Interfaces | | | | |
| City Multi | - | | | | |
| Mr Slim (P Series) | PAC-SF83MA/PAC-SJ18MA | | | | |
| Mr Slim (S Series) | MAC-333IF | | | | |
| M Series | MAC-333IF | | | | |
| Interface location | | | | | |
| PAC-SF83MA /PAC-SJ18MA | Outdoor | | | | |
| MAC-333IF | Indoor | | | | |
| | |  |  |  |  |
| | | IMG004 | IMG005 | IMG006 | IMG007 |




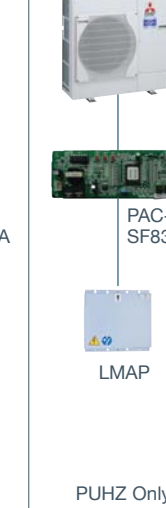

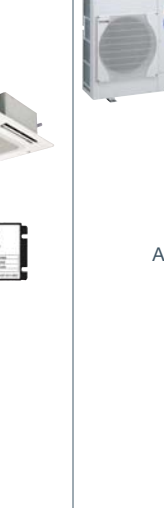

| Inputs / Outputs Interfaces | | M Series | Mr Slim | City Multi | | | |
|---|--|--|--|---|--|--|--|
| <p>Interfaces</p> <p>PAC-SA89TA: Remote On/Off / fire alarm via volt free contact.</p> <p>PAC-SA88HA: Run/Fault monitoring via 12VDC signal.</p> <p>TCB1: Remote On/Off / fire alarm via 12VDC signal.</p> <p>IO Interface: On/Off, fire alarm and run/fault monitoring using a volt free contact. Setpoint, fan speed and mode using 0 to 10VDC. Two energy saving functions available.</p> <p>MAC-397IF: Remote On/Off / fire alarm and run OR fault monitoring via volt free contact.</p> | |  <p>MAC-397IF</p> |  <p>PAC-SA89TA</p> <p>PAC-SA88HA</p> <p>IO Interface</p> <p>TCB1</p> |  <p>PAC-SA89TA</p> <p>PAC-SA88HA</p> <p>TCB1</p> <p>IO Interface</p> | | | |
| | | IMG008 | IMG009 | IMG010 | | | |





| Centralised Controllers | | M Series | Mr Slim (S Series) | Mr Slim (P Series) | City Multi |
|---|--|---|---|---|--|
| The AT50 does not require a PAC-SC51KUA on a single City Multi system. | |  MAC-333IF M-NET |  MAC-333IF M-NET |  PAC-SF83MA / PAC-SJ18MA M-NET |  M-NET |
| A PAC-SC51KUA is required for the AG150 and EB50. | | | | | |
| A PAC-SC51KUA is required for the AT50 when using splits or more than one City Multi system. | | | | | |
| Each centralised controller has the option of: | | | | | |
| - Fire alarm or On/Off input - Run and fault output - A PAC-YG10HA will be required with AG150 and EB50 - A PAC-YT41HAA will be required with AT50 | | | | | |
| | | IMG011 | IMG012 | IMG013 | IMG014 |
| | |  AT50 | | | |
| | |  EB50 | | | |
| | |  AG150 | | | |
| | |  PAC-SC51KUA | | | |
| | | IMG015 | | | |

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| Third Party Equipment Interfaces | PAC-YG63MCA, PAC-YG60MCA, PAC-YG66DCA | PAC-YG10HA | PAC-YT41HAA |
|--|--|---|-------------|
| <p>Systems</p> <p>PAC-YG63MCA is an MNET interface with 2 analogue inputs to connect temperature or humidity sensors.</p> <p>PAC-YG60MCA is an MNET interface with 4 digital pulse inputs to connect energy meters with pulse outputs.</p> <p>PAC-YG66DCA is an MNET interface with 2 general equipment input / outputs.</p> <p>Each interface requires a 24VDC power supply.</p> <p>The AT50 is only compatible with the PAC-YG66DCA.</p> |  <p>IMG016</p> |  <p>Fire Alarm</p> | |

| BEMS M-NET / A-NET Interfaces | | | | Modbus | BACnet | Trend | LonWorks | KNX-EIB | M2M |
|-------------------------------|--------|--------|----------|--|--|--|---|---|--|
| BEMS | Modbus | BACnet | LonWorks | | | | | | |
| Honeywell | | x | |  |  |  |  |  |  |
| Andover | x | x | | | | | | | |
| York | | x | | | | | | | |
| Siemens | x | x | | | | | | | |
| Priva | | x | | | | | | | |
| Delta | | x | | | | | | | |
| Johnson | | | x | | | | | | |
| Realtime | | | x | | | | | | |
| Smart | | | x | | | | | | |
| Cylon | x | | | | | | | | |
| Satchwell | x | | | | | | | | |
| Crestron | x | | | | | | | | |
| Invensys | x | | | | | | | | |
| Interactive | x | | | | | | | | |
| North BT | x | | | | | | | | |
| | | | |  MOD-IP/50 |  BAC-IP/50 |  BAC-HD150 |  EB50 |  LMAP |  EB50 |
| | | | |  MOD-IP/50 |  BAC-IP/50 |  IQ3-XNC | |  KNX-IP-EIB |  MAXI M2M-IP/50 |
| | | | | IMG017 | IMG018 | IMG018A | IMG019 | IMG020 | IMG021 |
| | | | | | | | | | IMG022 |

| BEMS M-NET / A-NET Interfaces | | | Modbus | | BACnet | | Trend | | LonWorks | | EIB/KNX | | M2M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------|--------|-----------|------------|--------|-----------|------------|-------|-----------|------------|---------|------|------------|--------|------------|------------|-------|-----------|------------|--------|------|--------|--------|-----|-------|---|----------|--------|--------|-------------|-------|---|----------|-------|--------|---|--|--|--|---|--|---|--|---|--|---|--|---|--|
| <p>IQ3 Excite XNC supplied by Synapsys Solutions. KNX interfaces are available from other third parties. No commissioning is included with any BEMS interface.</p> <table><tr><td>MOD-IP/50</td><td>City M S P</td><td>24VAC</td></tr><tr><td>BAC-IP/50</td><td>City M S P</td><td>24VAC</td></tr><tr><td>BAC-HD150</td><td>City M S P</td><td>240VAC</td></tr><tr><td>LMAP</td><td>City M S P</td><td>240VAC</td></tr><tr><td>KNX-EIB-IP</td><td>City M S P</td><td>24VAC</td></tr><tr><td>M2M-IP/50</td><td>City M S P</td><td>240VAC</td></tr><tr><td>A32M</td><td>P only</td><td>240VAC</td></tr><tr><td>A1M</td><td>M S P</td><td>-</td></tr><tr><td>BAC-A/50</td><td>P only</td><td>240VAC</td></tr><tr><td>KNX-EIB-A-1</td><td>M S P</td><td>-</td></tr><tr><td>M2M-A/16</td><td>M S P</td><td>240VAC</td></tr></table> <p>City: City Multi, M: M Series, S: S Series, P: P Series.</p> | | | MOD-IP/50 | City M S P | 24VAC | BAC-IP/50 | City M S P | 24VAC | BAC-HD150 | City M S P | 240VAC | LMAP | City M S P | 240VAC | KNX-EIB-IP | City M S P | 24VAC | M2M-IP/50 | City M S P | 240VAC | A32M | P only | 240VAC | A1M | M S P | - | BAC-A/50 | P only | 240VAC | KNX-EIB-A-1 | M S P | - | M2M-A/16 | M S P | 240VAC |  <p>IMG023</p> | |  <p>IMG024</p> | |  <p>IMG025</p> | |  <p>IMG026</p> | |  <p>IMG027</p> | |  <p>IMG028</p> | |  <p>IMG029</p> | |
| | | | MOD-IP/50 | City M S P | 24VAC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BAC-IP/50 | City M S P | 24VAC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BAC-HD150 | City M S P | 240VAC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LMAP | City M S P | 240VAC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| KNX-EIB-IP | City M S P | 24VAC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M2M-IP/50 | City M S P | 240VAC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A32M | P only | 240VAC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A1M | M S P | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BAC-A/50 | P only | 240VAC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| KNX-EIB-A-1 | M S P | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M2M-A/16 | M S P | 240VAC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Panels | PANEL_RS_SMS | MELCloud | M Series | Mr Slim |
|---|--|---|--|--|
| <p>The PANEL_RS_SMS is used to automatically change over the air conditioning.</p> <p>The PANEL_RS_SMS can monitor and control up to 8 single splits using A1M's. Two A1M's are supplied with the PANEL_RS_SMS.</p> <p>A fault output is available on the PANEL_RS_SMS for BEMS connection using a volt free contact.</p> <p>A 'Pay As You Go' SIM card may be installed to receive SMS under fault conditions.</p> <p>A 'Pay As You Go' SIM card is required to set up the panel when using more than 4 single splits.</p> |  <p>IMG030</p> | <p>MELCloud is a new Cloud based solution for controlling your Mitsubishi Electric air conditioning systems either locally or remotely by PC, Tablet or Smartphone via the Internet.</p> <p>Connect to Tablets, PC and Smartphones via the MAC-557IF-E Wi-Fi adaptor.</p>  |  <p>MAC-557IF</p> |  <p>MAC-557IF</p> |



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